

## What is claimed is:

1	1. A method for manufacturing an organic electroluminescent display,
2	comprising the steps of:
3	forming a substantially transparent substrate;
4	forming a plurality of first display electrodes arranged in parallel on said
5	substrate;
6	forming a non-photosensitive insulating layer on said substrate with first
7	display electrodes disposed thereon;
8	forming a photosensitive insulating layer on said non-photosensitive insulating
9	layer;
10	performing a photolithography process on said photosensitive insulating layer;
11	developing said photosensitive insulating layer and etching said non-
12 .	photosensitive insulating layer so as to form a plurality of photosensitive insulating
13	layer and the non-photosensitive insulating layer having a shape with its longitudinal
14	axis substantially perpendicular to the that of the first display electrodes, and the first
15	display electrodes being exposed partly;
16	forming an organic electroluminescent material on the exposed first display
17	electrodes; and
18	forming a plurality of second display electrodes on the organic
19	electroluminescent material.
1	2. The method according to claim 1, wherein the non-photosensitive insulating

layer is made of a thermal type polyimide.

1

1 2

1	3. The method according to claim 1, wherein the thickness of the non-
2	photosensitive insulating layer is in a range of 0.5-2μm.

- 4. The method according to claim 1, wherein the step of forming the non-photosensitive insulating layer further comprises a -baking process for providing partial cross-linking to the non-photosensitive insulating layer.
- 5. The method according to claim 4, wherein the temperature for -baking said non-photosensitive insulating layer is in a range of 120-180 C.
- 6. The method according to claim 4, wherein the duration time for -baking said non-photosensitive insulating layer is in a range of 20-60 minutes.
  - 7. The method according to claim 1, wherein the thickness of the photosensitive insulating layer is in a range of  $3-5\mu m$ .
  - 8. The method according to claim 1, wherein the exposure to the photosensitive insulating layer during the photolithography process is in a range 30-80mJ/cm<sup>2</sup>.
    - 9. The method according to claim 1, wherein the step of developing the photosensitive insulating layer and etching the non-photosensitive insulating layer is proceeded through developers.
- 1 10. The method according to claim 9, wherein the developer is TMAH 2.38%.
- 1 11. The method according to claim 9, wherein the duration time for developing is in a range of 50-100 seconds.
- 1 12. The method according to claim 1, wherein the photosensitive insulating 2 layer is developed into a trapezoid shape.

6



1	13. The method according to claim 12, wherein long side of the trapezoid shape
2	of the photosensitive insulating layer is not shorter than that of the reversed
3	trapezoid shape of the non-photosensitive insulating layer.
1	14. The method according to claim 1, wherein the non-photosensitive insulating
2	layer is etching into a reversed trapezoid shape.
1	15. The method according to claim 14, wherein long side of the trapezoid shape
2	of the photosensitive insulating layer is not shorter than that of the reversed
3	trapezoid shape of the non-photosensitive insulating layer.
1	16. The method according to claim 1, wherein the step of developing the
2	photosensitive insulating layer and etching the non-photosensitive insulating layer
3	further comprises a final cure process.
1	17. The method according to claim 16, wherein the temperature for proceeding
2	the final cure process is in a range of 200-350 C.
1	18. The method according to claim 16, wherein the duration time for
2	proceeding the final cure process is in a range of 30-120 minutes.
1	19. A method for manufacturing an organic electroluminescent display,
2	comprising the steps of:
3	forming a substantially transparent substrate;
4	forming a plurality of first display electrodes arranged in parallel on said

display electrodes disposed thereon;
pre-baking and -baking said non-photosensitive insulating layer;

forming a non-photosensitive insulating layer on said substrate with first

substrate;

2

1

2

1

2

9	forming a photosensitive insulating layer on said non-photosensitive insulating
10	layer, and pre-baking thereto;
11	performing a photolithography process on said photosensitive insulating layer
12	so as to define a shape having a longitudinal axis perpendicular to the that of the first
13	display electrodes, and performing a post-exposure baking process thereto;
14	dipping an aggregate composed of said substrate with said first display
15	electrodes, said non-photosensitive insulating layer and said photosensitive insulating
16	layer disposed thereon into developers, whereby said photosensitive insulating layer is
17	partially removed through development and said non-photosensitive insulating layer is
18	partially removed by etching, and thereby said first display electrodes are exposed
19	partially;
20	finally curing said aggregate;
21	forming an organic electroluminescent material on the exposed first display
22	electrodes; and
23	forming a plurality of second display electrodes on the organic
24	electroluminescent material.
1	20. The method according to claim 19, wherein the non-photosensitive
2	insulating layer is made of a thermal type polyimide.

- 21. The method according to claim 19, wherein the temperature for pre-baking said non-photosensitive insulating layer is in a range of 50-120 C.
- 22. The method according to claim 19, wherein the temperature for postexposure baking said photosensitive insulating layer is in a range of 90-150 C.
- 23. The method according to claim 19, wherein the duration time for postexposure baking said photosensitive insulating layer is in a range of 30-120 seconds.



2	layer is developed into a trapezoid shape.
1	25. The method according to claim 24, wherein long side of the trapezoid shape
2	of the photosensitive insulating layer is not shorter than that of the reversed
3	trapezoid shape of the non-photosensitive insulating layer.
1	26. The method according to claim 19, wherein the non-photosensitive
2	insulating layer is etched into a reversed trapezoid shape.
1	27. The method according to claim 26, wherein long side of the trapezoid shape
2	of the photosensitive insulating layer is not shorter than that of the reversed
3	trapezoid shape of the non-photosensitive insulating layer.
1	28. A method for manufacturing an organic electroluminescent display,
2	comprising the steps of:
3	forming a substantially transparent substrate;
4	forming a plurality of first display electrodes arranged in parallel on said
5	substrate;
6	forming a first photosensitive insulating layer on said substrate with first
7	display electrodes disposed thereon;
8	forming a second photosensitive insulating layer on said first photosensitive
9	insulating layer;
10	performing a photolithography process on said first and second photosensitive
11	insulating layers;
12	developing said first and second photosensitive insulating layers
13	simultaneously so as to form a plurality of first and second photosensitive insulating
14	layers having a shape with its longitudinal axis substantially perpendicular to the

24. The method according to claim 19, wherein the photosensitive insulating



13	that of the first display electrodes, and the first display electrodes being exposed
16	partly;
17	forming an organic electroluminescent material on the exposed first display
18	electrodes; and
19	forming a plurality of second display electrodes on the organic
20	electroluminescent material,
21	wherein the photosensitivity of the first photosensitive insulating layer is
22	different from that of the second photosensitive insulating layer.
1	29. The method according to claim 28, wherein the step of developing said first
2	and second photosensitive insulating layers is proceeded through developers.
1	30. The method according to claim 28, wherein the photosensitivity of said first
2	photosensitive insulating layer is greater than that of said second photosensitive
3	insulating layer.
1	31. A method for manufacturing an organic electroluminescent display,
2	comprising the steps of:
3	forming a substantially transparent substrate;
4	forming a plurality of first display electrodes arranged in parallel on said
5	substrate;
6	forming a first photosensitive insulating layer on said substrate with first
7	display electrodes disposed thereon;
8	forming a second photosensitive insulating layer on said first photosensitive
9	insulating layer;
10	performing a photolithography process on said first and second photosensitive
11	insulating layers so as to define a shape having a longitudinal axis perpendicular to
12	that of the first display electrodes;
13	dipping an aggregate composed of said substrate with said first display
14	electrodes, said first photosensitive insulating layer and said second photosensitive

21

1

2



15	insulating layer disposed thereon into developers, whereby said first and second
16	photosensitive insulating layers are partially removed through development, and thereby
17	said first display electrodes are exposed partially;
18	forming an organic electroluminescent material on the exposed first display
19	electrodes; and

- forming a plurality of second display electrodes on the organic electroluminescent material.
- 32. The method according to claim 31, wherein the photosensitivity of said first photosensitive insulating layer is greater than that of said second photosensitive insulating layer.